

IN THE CLAIMS:

1. (Currently Amended) An apparatus for producing an organic EL display device which that has at least a lower electrode, an organic luminescence medium and an upper electrode, the periphery of the device being sealed with a sealing member,

the apparatus comprising:

a first unit for carrying the supporting substrate in,

a second unit for heating at least the supporting substrate before forming the organic luminescence medium, thereby conducting a dehydration treatment,

a third unit comprising at least one device selected from a vapor depositing device, a sputtering device, an ion plating device, an electron beam evaporation device, a chemical vapor deposition device, a metal oxide chemical vapor deposition device, and a plasma enhanced chemical vapor deposition device for forming the organic luminescence medium and the upper electrode, and

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a fourth unit for sealing the periphery with the sealing member, and

carrying units being set up between the respective units.

2. (Original) The organic EL display device producing apparatus according to claim 1, wherein the first unit is arranged between the second unit and the third unit.

3. (Original) The organic EL display device producing apparatus according to claim 1, wherein the second unit is composed of a heating room and a cooling room.

4. (Original) The organic EL display device producing apparatus according to claim 1, wherein the second unit is provided with at least one of an inert gas circulating device, a pressure-reducing device, and a cooling device.

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5. (Original) The organic EL display device producing apparatus according to claim 1, wherein the first unit is provided with at least one of an inert gas circulating device, a pressure-reducing device, and a cooling device.

6. (Original) The organic EL display device producing apparatus according to claim 1, wherein the fourth unit is connected to the first unit.

7. (Original) The organic EL display device producing apparatus according to claim 1, wherein the second unit is made in common with the fourth unit.

8. (Currently Amended) The organic EL display device producing apparatus according to claim 1, wherein the third unit is further comprises a vacuum evaporation device having plural evaporation sources for evaporating plural samples simultaneously or successively.

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9. (Original) The organic EL display device producing apparatus according to claim 1, wherein the third unit comprises a buffer room, a vacuum evaporation device, and a sputtering device.

10. (Original) The organic EL display device producing apparatus according to claim 1, wherein the third unit further comprises a plasma-cleaning device.

11. to 18. (Canceled)

19. (New) A process for producing an organic electroluminescence display device comprising a lower electrode, an organic luminescence medium, and an upper electrode, the periphery of the device being sealed with a sealing member, the process comprising the steps of:

carrying a supporting substrate into a first unit;

transferring the carried-in supporting substrate from the first unit to a second unit by using a carrying device;

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heating the transferred supporting substrate in the second unit to conduct a dehydrating treatment;

transferring the dehydrated supporting substrate from the second unit to a third unit by using a carrying device;

forming the organic luminescence medium and the upper electrode by a vapor depositing device, a sputtering device, an ion plating device, an electron beam evaporation device, a chemical vapor deposition device, a metal oxide chemical vapor deposition device or a plasma enhanced chemical vapor deposition device in the third unit;

transferring the supporting substrate on which the organic luminescence medium and the upper electrode are formed from the third unit to a fourth unit by using a carrying device; and

sealing the periphery of the organic electroluminescence display device with the sealing member in the fourth unit.

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20. (New) The process for producing the organic electroluminescence display device of claim 19, further comprising cooling the dehydrated supporting substrate in the second unit, after the heating step.

21. (New) The process for producing the organic electroluminescence display device of claim 19, wherein the step of transferring the supporting substrate from the second unit to the third unit comprises transferring the dehydrated supporting substrate from the second unit to the third unit through the first unit.

22. (New) The process for producing the organic electroluminescence display device of claim 19, wherein the step of transferring the supporting substrate from the third unit to the fourth unit comprises transferring the supporting substrate on which the organic luminescence medium and the upper electrode are formed from the second unit to the third unit through the first unit.

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23. (New) The process for producing the organic electroluminescence display device according to claim 19, wherein the step of transferring the supporting substrate from the second unit to the third unit comprises:

transferring the supporting substrate from the second unit to the first unit,

cooling the supporting substrate in the first unit, and

transferring the supporting substrate from the first unit to the third unit.

24. (New) The process for producing the organic electroluminescence display device according to claim 19, wherein the step of forming the organic luminescence medium and the upper electrode comprises;

forming the organic luminescence medium in the third unit,

transferring the supporting substrate from the third unit to the second unit,

dehydrating the supporting substrate in the second unit,

transferring the supporting substrate from the second unit to the third unit again, and

forming the upper electrode in the third unit.

25. (New) A process for producing an organic electroluminescence display device comprising a lower electrode, an organic luminescence medium, and an upper electrode, the periphery of the device being sealed with a sealing member, the process comprising the steps of:

carrying a supporting substrate into a first unit;

transferring the carried-in supporting substrate from the first unit to a second unit by using a carrying device;

heating the transferred supporting substrate in the second unit to conduct a dehydrating treatment;

transferring the dehydrated supporting substrate from the second unit to a third unit by using a carrying device;

forming the organic luminescence medium and the upper electrode by a vapor depositing device, a sputtering device, an ion plating device, an electron beam evaporation device, a chemical vapor deposition device, a metal oxide chemical vapor

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deposition device, or a plasma enhanced chemical vapor deposition device in the third unit;

transferring the supporting substrate on which the organic luminescence medium and the upper electrode are formed from the third unit to the second unit through the first unit by using a carrying device; and

sealing the periphery of the organic electroluminescence display device with the sealing member in the second unit.